DEPARTMENT OF
DEFENSE, VETERANS AND EMERGENCY MANAGEMENT
Military Bureau
Joint Force Headquarters, Maine National Guard
Camp Keyes, Augusta, Maine 04333-0033

22 June 2017

TECHNICIAN POSITION VACANCY ANNOUNCEMENT #17-104

POSITION: Electronic Integrated Systems Mechanic (D2240P01/D2325000) WG-2610-12/13, EXCEPTED POSITION

LOCATION: 101st Maintenance Squadron, Bangor, Maine

SALARY RANGE:

$47,375 to $55,285 per annum **WG-12**

$48,940 to $57,038 per annum **WG-13**

CLOSING DATE: 6 July 2017

AREA OF CONSIDERATION:

AREA I – All permanent and indefinite Enlisted (E6 and below) Excepted Technicians in the Maine Air National Guard and personnel with reemployment rights to MeANG positions

AREA II – All Enlisted (E6 and below) members of the MeANG

AREA III – Personnel eligible for membership in the MeANG.

PERMANENT CHANGE OF STATION (PCS): PCS expenses may not be authorized for this position. Authorization for payment of PCS expenses will be granted only after a determination is made that payment is in the best interest of the Maine National Guard.

DUTIES: See attached duties and responsibilities.

QUALIFICATIONS: This position may be filled at the WG-12 or WG-13 grade. If filled at the WG-12 grade, the individual selected may be promoted to subsequent grade without further competition when it has been determined that the individual meets the qualifications required for promotion to the higher grade.

MINIMUM QUALIFICATION REQUIREMENTS: Each applicant must show how they meet the General and Specialized Experience listed below; otherwise, the applicant may lose consideration for this job.

GENERAL EXPERIENCE:

Applicants should have an understanding of the basic principles and concepts of the Electronic Integrated Systems Maintenance work; skilled in collecting and analyzing data effectively, efficiently, and accurately; ability to communicate clearly and effectively; skilled in duties such as, install, modify, overhaul, maintain, troubleshoot, repair, align, calibrate, and rebuild multi-system avionics complexes; skilled in the use of technical manuals to accomplish work.

KNOWLEDGE, SKILLS AND ABILITIES (KSAs): Your qualifications will be evaluated on the basis of your level of knowledge, skills, abilities and/or competencies in the following areas:

REQUIRED SPECIALIZED EXPERIENCE:

WG-12:
The applicant must have at least a *three-skill level* in one of the compatible AFSCs, with 12 months of work experiences, that involved installing, modifying, overhauling, maintaining, troubleshooting, repairing, aligning, calibrating, and rebuilding multi-system avionics complexes consisting of multiple completely integrated electronic avionics systems where the complex accomplishes a number of major functions.

1. Knowledge of theory of electronics as it applies to aircraft avionics systems

2. Knowledge of electronic, pneumatic, hydraulic, and mechanical systems.

3. Ability to locate and diagnose malfunctions in integrated electronic systems.

5. Ability to interpret technical manuals, diagrams, and schematics to make repairs and modifications.

6. Ability to use hand tools and precision measuring equipment.

7. Skill in the use of diagnostic and testing equipment.

WG-13:
The applicant must have at least a *seven-skill level* in one of the compatible AFSCs, with12 months of specialized experiences working as an Electronic Integrated Systems Mechanic, WG-2610-12, and must possess the craftsman level of knowledge and skills to install, modify, overhaul, maintain, troubleshoot, repair, align, calibrate, and rebuild multi-system avionics complexes consisting of multiple completely integrated electronic avionics systems where the complex accomplishes a number of major functions.

1. Skill in completing technical order compliances, completing component and system modifications, and performing thorough system checks for correct operations.

2. Knowledge of evaluating operational characteristics of the integrated systems by observing and analyzing voltage, current, power indications, computer data downloads.

3. Skill in monitoring the operations of complex, inter-related systems, analyzing operating trends, and proposing preventative maintenance down time.

4. Skill in advising aerospace engineering personnel on the operation and maintenance effects of proposed time compliance technical orders' modifications on new or existing equipment.

COMPATIBILITY CRITERIA: AFSC – 2A090, 2A2X1, 2A2X2, 2A2X3, 2A3XX, 2A590, 2A5X1, 2A5X4, 2A8X1, 2A8X2
Note: Personnel who do not possess this AFSC must be prepared to attend the appropriate school.

HOW TO APPLY: Detailed instructions are contained in an Instruction Guide titled "Technician Vacancy Announcement Guide" which should be posted with this vacancy announcement. Applicants may apply using the OF Form 612 Optional Application for Federal Employment, a resume, or any other format they choose. In addition to their basic application, applicants are strongly encouraged to complete ME Form 171, Military Experience and Training Supplement. Applications forwarded to HRO should be no more than eight (8) pages although additional pages may be submitted as necessary. Applications should include written or documented proof of education, training, and work experience deemed necessary to adequately respond to general and specialized experience factors listed in the TPVA. Professional licenses or education transcripts necessary to validate qualifications should be submitted as required in the TPVA. Do not include photo copies of awards (a military ribbon rack or civilian certificate), letters of commendation, enlisted or officer performance reports, Technician performance appraisals, and personal photos unless specifically requested in the TPVA". Applications must be forwarded to: Joint Force Headquarters, ATTN: HRO, Camp Keyes, Augusta, Maine 04333-0033, NOT LATER THAN the closing date. Applications received AFTER the closing date WILL NOT BE CONSIDERED. The use of government envelopes, postage or facsimile machines to submit applications is prohibited. We are allowed to receive facsimiles sent from non-government facsimile machines. The inter-office distribution system may be used. You may also e-mail it to: ng.me.mearng.list.hro-applications@mail.mil.

APPOINTMENT: Selectee will be required to participate in Direct Deposit/Electronic Funds Transfer as a condition of employment. The Adjutant General retains exclusive appointment authority for Technicians. No commitment will be made to any nominee prior to a review of qualifications by this office. The Maine National Guard is an Equal Opportunity Employer. All appointments and promotions will be made without regard to race, color, creed, sex, age or national origin.

DISSEMINATION: Supervisors, please post to bulletin boards, read at unit formations and notify personnel who may be interested. Qualified personnel who may be absent during this announcement period due to ADT, AT, TDY, school, illness, etc., should be notified.

WORK: DSN 626-6019 / COM (207) 430-6019 FAX: DSN 626-4246 / COM (207) 626-4246

FOR THE HUMAN RESOURCES OFFICER:

//s//
CARA E. MacVANE
SGT, MEARNG
Human Resources Specialist
(Recruitment &Placement/Compensation)

D2240P01

This position works within an Air National Guard Aviation Wing, Maintenance Group, Aircraft Maintenance Squadron, Avionics Element, Avionics Shop, Communications/ Navigation/ECM, or Guidance and Control shop. It is an Air National dual status technician position that requires military membership, compatible military skill assignment and classification. The primary purpose of this position is to install, modify, overhaul, maintain, troubleshoot, repair, align, calibrate, and rebuild multi-system avionics complexes consisting of multiple completely integrated electronic avionics systems where the complex accomplishes a number of major functions. The worker in this career field must demonstrate the ability to perform on- or off-equipment maintenance on one or more complete electronic integrated systems associated with the assigned aircraft and/or maintenance on automatic flight control systems, instrument systems, inertial and radar navigation systems.

MAJOR DUTIES:
1. Performs scheduled and unscheduled maintenance on one or more multi-complex electronic integrated systems. Completes operational checks, inspections, tests, trouble shooting, removal and replacement of Line Replaceable Units (LRUs) which are linked with integrated systems and LRUs which are independent or associated with nonintegrated systems. Isolates unusual malfunctions using technical orders, schematics, wiring diagrams, tools, and test equipment including automatic test equipment and Flight Line Test Systems (FLTS). Solves complex problems by analyzing installation, circuitry, and operating characteristics of the systems. Adjusts and aligns system sensors, transmitters, amplifiers, power supplies, display devices, controls, transponders, actuators, servos, computers and other related components. Installs serviceable components into aircraft and performs total systems alignment and harmonization in accordance with existing technical orders and directives. Accomplishes technical order compliances, modification of components/systems and completes thorough system checks for proper operation. Maintains, modifies, calibrates and inspects a wide variety of user test, measurement, and diagnostic equipment (TMDE). Installs, modifies, overhauls, maintains, troubleshoots, repairs, rebuilds, aligns, and calibrates complete electronic avionics multi-systems control. Demonstrates a thorough working knowledge of complex aircraft avionics and or ECM systems such as the electronics package in a highly automated aircraft where the integrated flight and Integrated Countermeasures System, electronic multiplex communications bus, Inertial Navigation System, multi-function displays, head-up display, data transfer equipment, Global Positioning System, Situation Awareness Data-Link (SADL), Data Modem, Flight Control System, pitot-static system and related instrumentation, flight director instrumentation, Central Air Data Computer, engine, hydraulic and fuel quantity indicating systems, voice message warning, VHF, UHF, SATCOM Data, intercom, secure voice communications, Identification Friend or Foe (IFF), and Tactical Air Navigation System (TACAN). Evaluates operational characteristics of the integrated systems by observing and analyzing waveforms, voltage, current, power indications, computer registers and printouts. Analyzes the malfunctions encountered through fault codes, determines repair sequence process and performs the repairs. (30%)

2. Reviews and analyzes maintenance data; determines if criteria are sufficient to provide adequate test, troubleshooting and repair procedures; devises and recommends tests, procedural changes, or data corrections. Aligns, adjusts, and performs final calibrations on integrated systems to determine successful repairs. Analyzes equipment failure and malfunctions and suggests changes to improve

operation. Monitors the operation of complex, interrelated systems, analyzes operating trends, proposes preventative maintenance down time to assure continued operating capability, and recommends components for overhaul or engineering evaluation for disposal. Applies technical data and equipment specifications to determine the impact that equipment modifications or substitutions will have upon integrated multi-system operations and various maintenance alignment procedures. Uses algebraic and trigonometric functions to adapt standard formulas to the specific requirements of the integrated system. Installs, operates, and repairs prototype or experimental electronic systems such as inertial navigation, automatic flight control as assigned. Advises Aerospace Engineering personnel on the operation and maintenance effects of proposed Time Compliance Technical Orders (TCTO) modifications on new or existing equipment. Interacts directly with aircrews for mission/sortie debrief and enhanced system troubleshooting. (20%)

3. Troubleshoots operational malfunctions and analyzes system performance utilizing aircrew debrief data, Technical Orders, schematic and wiring diagrams, engineering drawings, data analysis, common and system-specific test equipment and built in system tests. Performs on and off-equipment maintenance on systems such as automatic flight control, instruments, communication, navigation, and inertial navigation. Coordinates back shop bench check (if applicable, completes testing, repair, inspection, modification, programming, reprogramming, mating, adjusting, alignment, and analyzing of LRUs and shop replaceable units (SRUs). Uses a variety of test equipment such as automatic test equipment (ATE), oscilloscopes, frequency counters, phase-angle voltmeters, optical alignment equipment, digital pitot-static testers, programming units and special purpose test analyzers. Tests and troubleshoots solid state electronic assemblies and subassemblies such as circuit cards, modules, rate generators, electronic control amplifiers, electro-mechanical assemblies, random access memories, programmable read only memories, and various integrated circuits. Identifies faulty parts and repairs to level authorized. Reassembles unit after repair, performs alignment and makes shop checks. (20%)

4. Recommends methods to improve equipment performance, technical data, and maintenance procedures by reporting hardware and software malfunctions, initiates material deficiency reports both on equipment and in technical data, and assists in design changes as necessary. Conducts aircrew debriefing to determine the nature of system malfunctions. Documents all discrepancies and maintenance actions performed by inputting information into the electronic records information systems (i.e.: CAMS, IMDS, GO-81, REMIS). Recommends hardware and software changes. Submits change recommendations to Technical Orders. Requisitions supply assets and processes repairable assets in accordance with Standard Base Supply System requirements. Documents maintenance actions in aircraft forms and documents man-hour expenditures and maintenance actions in the maintenance computer system. Maintains Electronic Warfare (EW) (if applicable) and analysis equipment such as infrared/radar warning equipment, infrared/radar jamming equipment, chaff/flare dispensing systems, signal analysis equipment, recorders, direction finders, and special purpose test equipment. Accomplishes organizational and intermediate level modifications. Configures complex aircraft ECM equipment (if applicable) to meet critical mission requirements. Performs intricate component alignment and calibration to ensure proper system operation. Performs flight operational test, adjusts or replaces units or components as required. Conducts aircrew debriefings to analyze maintenance problems and determines the nature of required modifications. (15%)

5. May upload and download chaff/flare dispensers. This hazardous task may involve the inspection, storage and handling of explosive devices; to include flares, chaff, impulse cartridges and similar

items. Conducts on-the-job training on assigned systems and related support equipment and tasks to include classroom instruction as necessary. Provides training to lower graded personnel concerned with the repair of integrated avionics systems. Provides training to newly assigned personnel regardless of grade level. Prepares for and participates in Aerospace Expeditionary Force (AEF) tasking, deployments and various inspections and exercises. Processes and accounts for due-in from maintenance (DIFM) supply assets. Ensures that material and equipment are properly stored, protected and maintained and that funds are not obligated for material or parts without proper justification. (10%)

6. May be required to perform additional duties such as structural fire-fighting, aircraft fire/crash/rescue duty, serve as a security guard, remove snow, load and handle munitions, launch/recover and service aircraft, operate heavy equipment, maintain facilities and equipment, or serve as a member of a team to cope with natural disasters or civil emergencies. Complies with safety, fire, security, and housekeeping regulations. (10%)

Performs other duties as assigned.

D2325000

This position works within an Air National Guard Aviation Wing, Maintenance Group, Aircraft Maintenance Squadron or Maintenance Squadron, Avionics Element, Avionics Shop or Communications/Navigation/ECM, Guidance and Control shop that supports aircraft. It is an Air National Guard dual status technician position that requires military membership, compatible military skill assignment and classification. The primary purpose of this position is to install, modify, overhaul, maintain, troubleshoot, repair, align, calibrate, and rebuild multi-system avionics complexes consisting of multiple completely integrated electronic avionics systems where the complex accomplishes a number of major functions. The worker in this career field must demonstrate the ability to perform on-or-off equipment maintenance on one or more complete electronic integrated systems associated with the assigned aircraft and/or maintenance on automatic flight control systems, instrument systems, inertial or radar navigation systems.

MAJOR DUTIES:

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